Response of
Wisconsin Power and Light Company
to
The Public Service Commission of Wisconsin
Data Request No. 3.16

Docket Number:	05-CE-137
Date of Request:	March 11, 2009
Information Requested By:	Ken Detmer
Date Responded:	April 1, 2009
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Witness: (If other than Author)	

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Follow-up to the March 3, 2009, Progress Report in docket 05-CE-114: What is the Economic maximum load for Edgewater 4 with the SNCR/RRI in operation? Provide emission levels obtained with SNCR/RRI in service and discussion if these levels will be improved or maintained. Provide chemical injection rates and associated costs and the increase in projected O&M costs.

Response:

Due to slag accumulations in the boiler superheat area, a maximum load test has yet to be run on Edgewater 4 with the SNCR system in service. The unit is currently load limited to [redacted] gross MW until the slag accumulation can be removed during the planned spring outage.

The SNCR/RRI unit was started up in late January and ran for the month of February across various load ranges up to 290 gross MW. The un-weighted average NOx level achieved for the month of February 2009 was .107 lb/MMBtu. After the upcoming planned outage a maximum load test is planned for the unit. Additional run time on the SNCR/RRI systems will assist in establishing a long term achievable NOx rate for this unit. Until full MW load levels can be reached on this unit, WPL believes it is premature to assess whether or not the NOx levels achieved in February will be sustained or improved.

The graph listed below shows the median gallon per minute injection rates for urea across the MW loads that were experienced in February.

The estimate for urea usage developed in Q4 2008 was factored upon an annual unit capacity factor of [redacted]% and a urea price of $[redacted] per gallon. Taking these variables into consideration it is estimated that the full year urea cost for this unit would be $[redacted] (WPL share).